

The Anomaly of the Magnetic Anisotropy of $K_3Fe(CN)_6$ SOV/56-35-3-12/61
Single Crystals at Low Temperatures

the opposite direction). Interaction between paramagnetic ions is looked upon as the cause of this anisotropy. There are 2 figures and 16 references, 4 of which are Soviet.

ASSOCIATION: Institut biologii i meditsiny Akademii nauk Germanskoy Demokraticeskoy Respubliki (Institute of Biology and Medicine of the German Democratic Republic)

SUBMITTED: April 25, 1958

Card 3/3

GISINA, K.B.; SHOFR, R.I.

Effect of interface movement in capillary-porous and colloid bodies on heat and mass transfer process during the sublimation of ice in a vacuum. Inzh.-fiz. zhur. 7 no.5:34-38 My '64.
(MIRA 17:6)

1. Institut teplo- i massobemena AN BSSR, Minsk.

"APPROVED FOR RELEASE: 08/23/2000

CIA-RDP86-00513R001549820012-9

SCHIFFA, N. F.

Fueling of tractors, cars and combines used in agriculture. Moskva, Gos. nauchno-tekhn. izd-vo neftianoi i gorno-toplivnoi lit-ry, 1949. 84 p. (V pomoshch' neftebazam MTS i sovkhozov) (50-29827)

S760.R9Sh8

APPROVED FOR RELEASE: 08/23/2000

CIA-RDP86-00513R001549820012-9"

"APPROVED FOR RELEASE: 08/23/2000

CIA-RDP86-00513R001549820012-9

(Petroleum product accounting in machine-tractor stations and sovkhozes)
Moskva, Gos. nauchno-tekhn. izd-vo neftjanoi i gorno-toplivnoi lit-ry,
1949. 107 p. (V pomoshch' neftebaam MTS i sovkhozov) (50-27584).

TP692.5.S5

APPROVED FOR RELEASE: 08/23/2000

CIA-RDP86-00513R001549820012-9"

The construction and outfitting of petroleum supply bases at machine-tractor stations and sovkhozes. Moscow, Gos. nauchno-tehn. izd-vo neftianoi i gorno-toplivnoi lit-ry, 1942, 125 p. (V tomachch'neftebazar MTZ i sovkhozov) (50-27565)

TE642.5.348

"APPROVED FOR RELEASE: 08/23/2000

CIA-RDP86-00513R001549820012-9

SHOFFA, N. F.

The utilization of petroleum at the machine-tractor stations and sovkhozes. Moskva,
Gos. nauchno-tekhni. izd-vo neftianoi i gorno-toplivnoi lit-ry, 1949. 139 p.
(V pomoshch' neftebazam MTS i sovkhozov) (51-19416)

TP692.5.Sb78

APPROVED FOR RELEASE: 08/23/2000

CIA-RDP86-00513R001549820012-9"

SHURFA, N. I.

Technology

Short manual for employees handling petroleum products at machine-tractor stations and state farms; Moskva, Gos. nauch-tekhn. izd-vo neftianoi i gornotoplivnoi lit-ry, 1951.

9. MONTHLY LIST OF RUSSIAN ACCESSIONS, Library of Congress, May 1952. Uncl.

AID P - 516

Subject : USSR/Engineering

Card 1/1 Pub. 93 - 3/12

Author : Shoffa, N. F., Engineer

Title : Equipment for the preparation of reinforcing frameworks

Periodical : Sbor. mat. o nov. tekhn. v stroi., 6, 9-12, 1954

Abstract : Work benches are suggested for assembling and welding of reinforcing bar frameworks for concrete structures.
6 diagrams show the details.

Institution : None

Submitted : No date

SHOFFA, N.F.; YERSHOV, P.R., vedushchiy redaktor; TROFIMOV, A.V., tekhnicheskiy
redaktor

[Petroleum products at machine-tractor stations and on state farms;
brief manual] Neftekhoziaistvo MTS i sovkhozov; kratkii spravochnik.
2-e izd., ispr. i dop. Moskva, Gos. nauchno-tekhnicheskoe izd-vo
neftianoi i gorno-toplivnoi lit-ry, 1955. 210 p. (MLRA 8:10)
(Petroleum products)

SHOFFA, N., inshener.

Fifty blocks per shift instead of thirty. Stroitel' 2 no. 9:11 S'56.
(MIRA 10:1)

(Cranes, derricks, etc) (Building blocks)

GRECHUSHNIKOV, G.A., glavnnyy inzhener; SHOFFA, N.F., inzhener.

Welding one-dimensional and three-dimensional reinforcement frames
on the MTP-75 and MTE-100 welding machines. Stroi.prom.34 no.6:8-10
Je '56. (MIRA 9:9)

1.Orgstrey Minmetallurgkhimstroya SSSR.
(Reinforced concrete) (Electric welding)

SHOFMAN, A.B.

From the work of the analysis department of pharmacy No.11 in
Leningrad. Apt. delo 10 no.6;59-61 N-D '61. (MIRA 15:2)
(LENINGRAD PHARMACY) (CHEMISTRY, ANALYTIC)

IVANOV, A.F.; SHOFMAN, F.M.

Nitrogen industry in capitalist countries. Khim. nauka i prom. 1
no.6:699-705 '56. (MLRA 10:3)
(Nitrogen industries)

IVANOV, A.F.; SHOFMAN, F.M.

Production of synthetic ammonia in the United States. Biul.tekh.-
ekon.inform. no.12:80-84 '59. (MIRA 13:4)
(United States--Ammonia)

IVANOV, A.F.; SHOFMAN, F.M.

Production of nitrogen fertilizers in the United States.
Biul.tekh.-ekon.inform. no.2:93-96 '60. (MIRA 13:6)
(United States--Nitrates)

D

IVANOV, A.F.; SHOFMAN, F.M.

Nitrogen fertilizer industry of the capitalist countries
in Western Europe. Biul.tekh.-ekon.inform. no.7:92-95
'60. (MIRA 13:?)
(Europe, Western--Fertilizer industry)

SHOFMAN, F.M.

Synthetic fibers and chemical raw materials used in their manufacture. Biul.tekhn.-ekon.inform. no.12:86-91 '60. (MIRA 13:12)
(Textile fibers, Synthetic)

SHEVCHENKO, L. A.

Glubokaja vytiazhka listovogo metalla. Moskva, 1945. 46 p. diagrs. (Institut tekhnicheskoi ekonomicheskoi informatsii (Izdaniia) 1945, No 2)

(Extrusion of sheet metal.)

DLC: TS250.S46

SO: Manufacturing and Mechanical Engineering in the Soviet Union,
Library of Congress, 1953.

SUF'YAN, L. A.

Avtomatizatsiia i mekhanizatsiia shtampoval'nykh rabot. Moskva, TGFN
Gosplana SSSR, 1946. 56 p.

(Automatization and mechanization of stamping operations.)

SO: Manufacturing and Mechanical Engineering in the Soviet Union,
Library of Congress, 1953.

"APPROVED FOR RELEASE: 08/23/2000

CIA-RDP86-00513R001549820012-9

*SHOFMAN, L. A.

"Measurement of the Speed of the Members of a Forging Machine," Vest. Mashinostroy.,
No. 6, 1948, Cand. Tech. Sci.

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CIA-RDP86-00513R001549820012-9"

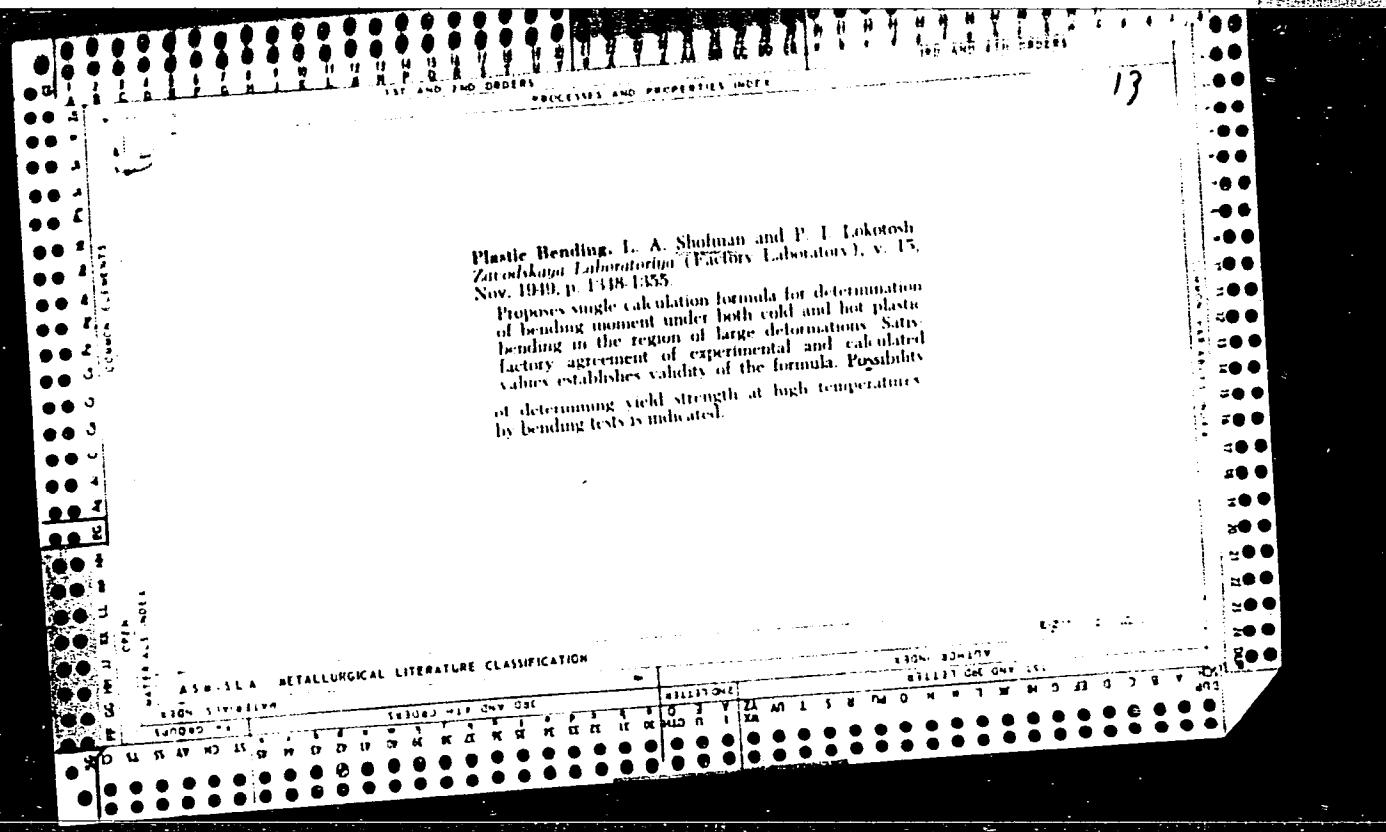
СУХИЙ, Л. А.

Mekhanizatsiya i avtomatisatsiya shtampoval'nykh rabet. (Vestn. Mash.,
1949, no. 10, p. 52-56)

(Mechanization and automatization of stamping operations.)

DLC: TMh.Wi

SC: Manufacturing and Mechanical Engineering in the Soviet Union,
Library of Congress, 1953.



Shofman, L. A.

"Experimental Investigation of Cold and Hot Upsetting", from book
"Novyye Issledovaniya v Oblassti Kuznechnoy Tekhnologii", Edited by
Ye. P. Unkov, Mashgiz, 1950, Moscow.

"APPROVED FOR RELEASE: 08/23/2000

CIA-RDP86-00513R001549820012-9

Shofman, L.

"Ring Upsetting", Chapter LX from Book "Principles and Theory of Cold Stamping", Oboromgiz, Moscow, 1952 (TS 462 S 45).

APPROVED FOR RELEASE: 08/23/2000

CIA-RDP86-00513R001549820012-9"

SPKUAN, L A

Elementy Teorii Kholednoy Shtampovki (Factors in The Theory of Cold Stamping) Moskva, Ghoronfiz, 1952.

334 p. Illus., Diagrams, Tables.
Literatura: p. 300--(332)

Sc: N/S
615.915
.85

STEPANOV, V.N.; SHOFMAN, L.A., redaktor; ZUDAKIN, I.M., tekhnicheskiy
redaktor.

[Technology of stamping parts and of the construction of dies]
Tekhnologiya chekanki shtampovannykh detalei i konstruktsii
chekanochnykh shtampov. Moskva, Gos. izd-vo oboronnoi promyshl.,
1954. 190 p.
(Dies (Metalworking) (Forging))

MALOV, A.N.; SHOFMAN, L.A., kandidat tekhnicheskikh nauk, redaktor;
~~ZUDAKIN, I.M.~~, tekhnicheskly redaktor

[The operator of cold stamping machinery] Shtampovshchik po kho-
lodnoy shtampovke. Moskva, Gos. izd-vo oboronnoi promyshlennosti,
1954. 214 p.
(Power presses) (Metals--Cold working)

SHOFMAN, L.A., kandidat tekhnicheskikh nauk.

Study of drawing and drop forging of large-diameter sheet-metal end
plates. [Trudy] TSNIITMASH 62:102-130 '54. (MLRA 7:9)
(Extrusion (Metals)) (Forging) (Sheet metal work)

ALTYKIS, A.V., kandidat tekhnicheskikh nauk; SHOFMAN, L.A., kandidat tekhnicheskikh nauk.

Effect of peening on the drawing of sheet metal. Metalloved. i obr.met.
(MLRA 9:10)
no.8:37-42 Ag '56.

1.TSentral'nyy Nauchno-issledovatel'skiy institut tekhnologii i mashinostroyeniya.
(Sheet steel--Hardening) (Deep drawing (Metalwerk))

SHOFMAN, L.A., kandidat tekhnicheskikh nauk.

New methods for calculating the processes of three-dimensional stamping. Vest.mash.36 no.12:54-60 D '56.
(Sheet-metal work) (Deep drawing (Metalwork))

SOV/137-57-11-21404 D

Translation from: Referativnyy zhurnal, Metallurgiya, 1957, Nr 11, p 106 (USSR)

AUTHOR: Shofman, L.A.

TITLE: Elements of the Theory and Investigation of the Stamping of Sheet and Thick Blanks (Elementy teorii i issledovaniya ob'yemnoy i listovoy shtampovki)

ABSTRACT: Bibliographic entry on the Author's dissertation for the degree of Doctor of Technical Sciences, presented to the Mosk. in-t tsvet. met. i zolota (Moscow Institute of Nonferrous Metals and Gold), Moscow, 1957

ASSOCIATION: Mosk. in-t tsvet. met. i zolota (Moscow Institute of Nonferrous Metals and Gold), Moscow

Card 1/1

SHOFMAN, L.A.

IL'IN, M.M.; SHOFMAN, L.A., kandidat tekhnicheskikh nauk, rezensent;
KUZNETSOVA, A.G., izdateльский redaktor; KOKHTEV, A.A., inzhener,
redaktor; ROZHIN, V.P., tekhnicheskiy redaktor.

[Production of one-piece steel ring blanks] Proizvodstvo stal'nykh
tsel'nokatanykh kolets-zagotovok. Moskva, Gos.izd-vo ober.promyshl.
1957. 126 p. (MLRA 10:4)

(Rolling (Metalwork))

OKHRIMENKO, Yakov Mikhaylovich; ARISTOV, V.M., kand.tekhn.nauk, retsenzent;
SHOFMAN, I.A., kand.tekhn.nauk, red.; MEZHOVA, V.A., red.izd-va;
MODEL', B.O., tekhn.red.; TIKHANOV, A.Ya., tekhn.red.

[Principles of swaging] Osnovy tekhnologii goriachei shtampovki.
Moskva, Gos.nauchno-tekhn.izd-vo mashinostroit. lit-ry, 1957. 328 p.
(Forging) (MIRA 11:2)

SHOFMAN, L.A.

137-58-5-9550

Translation from: Referativnyy zhurnal, Metallurgiya, 1958, Nr 5, p 104 (USSR)

AUTHOR: Shofman, L. A.

TITLE: Problems of the Kinematics of Changes in Shape Due to Press-working of Metals (Voprosy kinematiki formoizmeneniya pri obrabotke metallov davleniyem)

PERIODICAL: V sb.: Inzhenern. metody rascheta tekhnol. protsessov obrabotki metallov davleniyem. Moscow-Leningrad, Mashgiz, 1957, pp 207-215

ABSTRACT: A study of problems relating to changes in shape provides suitable criteria for the choice of optimal dimensions and shapes for the initial billet. A theoretical analysis of the movement of particles of matter and elementary units of the body being deformed is made from this point of view, and examples illustrating the propositions set forth are examined.

M. Ts.

1. Metals--Deformation 2. Metals--Processing 3. Industrial plants
--Standards

Card 1/1

SHOFMAN, L.A.

25(1) PHASE I BOOK EXPLOITATION SOV/2944

Gubkin, Sergey Ivanovich (Deceased), Mikhail Vasil'yevich Storozhev,
Boris Pavlovich Zverno, Vasiliy Fedorovich Katkov, Il'ar'y
Anatol'yevich Moritsyn, Yevgeniy Aleksandrovich Popov, Georgiy
Aleksandrovich Al'mirov-Al'ysov, Aleksandr Dmitri'yevich Tomlenov,
Yevgeniy Pavlovich Unksov, and Leopold Adolf'ovich Shofman

Onnovy teorii obrabotki metallov davleniem (Fundamentals of the
Theory of Metal Forming) Moscow, Mashgiz, 1959. 533 p. Errata
slip inserted. 7,500 copies printed.

ED.: M. V. Storozhev; Ed. of Publishing House: A. I. Sirotin,
Engineer; Tech. Ed., B. I. Model'; Managing Ed. for Literature
on Heavy Machine Building (Mashgiz); S. Ya. Golovin, Engineer.

PURPOSE: This book is intended for engineers and scientific workers
studying the theoretical problems of metal forming.

COVERAGE: This collective work purportedly reflects the contemporary
trends in the development of the metal-forming theory. Emphasis
is given to methods of calculating forces and deformations.
The use of these methods is illustrated in analyses of Smith-
and drop-forging operations. No personalities are mentioned.
There are 227 references: 197 Soviet, 17 German, and 13
English.

SHONMAN, L.A.; PERLIN, P.I.

Theoretical analysis of the processes of shaping a rigid-plastic body by pressure. Kuz.-shtam.proizv. 1 no.4:4-10 Ap '59.
(MIRA 12:10)

(Deformations (Mechanics)) (Forming)

report presented at the Int. All-Union Conference of Theoretical and Applied Mechanics,
Moscow, 27 Jan - 3 Feb '60.

201. A. A. Novozhilov (Russia): An experimental study of the
mechanical properties of thin-walled shells subjected
to various combinations of tension, torsion, and lateral
pressures.
202. Yu. G. Strelkov (USSR): Variational methods in the theory
of elasticity.
203. A. A. Novozhilov (Russia): The stability of motions of solids —
Lagrange's theorem for solids and its inversion.
204. A. A. Novozhilov (Russia): A kinematic approach to a
circular cylindrical shell.
205. V. F. Kondratenko (USSR): On the uniqueness of the solution
of the problem of determining the deflections of a circular plate under
rotationally symmetric loading.
206. G. M. Kondratenko (USSR): The determination of the deforma-
tion of three-dimensional shells.
207. Dr. M. Rastegui, L. G. Trescau (France): A theory of isotropic
circular plates and shells.
208. A. O. Savenko (Russia): Some problems in the theory of
elasticity such as:
209. Yu. V. Kondratenko (USSR): Vibrations of an elastic circular
cylindrical shell under eccentric impact loads.
210. Yu. M. Sipil' (Finland): New approximate equations of motion for
circular cylindrical shells.
211. V. A. Slobodkin (USSR): Approximate treatment of cylindrical
shells under concentrated loads.
212. Yu. N. Slobodkin (Russia): Distribution of reactions at the
ends of a simply supported rectangular plate under suddenly
increasing loading.
213. Yu. N. Slobodkin (Russia): Some dynamical problems of thermo-
elasticity.
214. Yu. V. Kondratenko (USSR): Investigation of the viscoelastic behavior
of elastomers (thermoplastic materials) in vibrations.
215. Yu. V. Kondratenko (USSR): Problems of the
nonlinear theory of elasticity (Russia): Problems of the
nonlinear theory of elasticity (Russia): Application of the
method of finite differences to the theory of shells.
216. I. P. Oreshatov (Russia): An approximate method for solving
problems associated with the theory of shells.
217. N. D. Gulyam (USSR): General principles of wave
propagation in shells.
218. Yu. G. Strelkov (Russia): The method of elastoplasticity and its
applications.
219. N. Glushko (Russia): Two-dimensional problems in the theory
of plasticity of anisotropic and elasto-plastic shells.
220. Y. D. Gulyam (Russia): The state of stress in a deformed
cylindrical shell.
221. V. I. Gulyam (Russia): A membrane theory for a
cylindrical shell.
222. V. I. Gulyam (Russia): Shear, elastic properties and calcu-
lation of plastic anisotropic shells.
223. G. I. Pashinian (Russia): A practical method of designing
reinforced concrete structures with reference to cracks.
224. Yu. G. Strelkov (Russia): The problem of structural damping.
225. Yu. G. Strelkov (Russia): An approximate method for solving
elastoplastic problems.
226. Yu. G. Strelkov, Yu. A. Shchukin (Russia): Application of the
theory of field-particle fields to problems of solid mechanics.
Theory of elasticity.
227. A. M. Fedorov (USSR): On the axisymmetric problems of the
theory of elasticity.
228. D. I. Pashinian (Russia): A method for studying the plane field
of displacement in shells.
229. G. I. Pashinian (Russia): The application of some new
methods of calculating shells to the theory of elasticity.
230. V. A. Popov (Russia): Free and forced vibrations of
thin-walled shells under various loadings.
231. Yu. N. Slobodkin (Russia): Investigation and calculation
of frictional friction in elastic waves of vibrating machines.
232. Yu. G. Strelkov (Russia): An elementary discussion of surface
stress.
233. Yu. I. Pogorelskiy (Russia): Photoelastic investigation of
three-dimensional layered media.

GOROZHANKIN, A.N., kand.tekhn.nauk; NOVITSKIY, V.K., kand.tekhn.nauk;
KRYANIN, I.R., doktor tekhn.nauk; IODKOVSKIY, S.A., kand.tekhn.
nauk; LADYZHERSKIY, B.N., kand.tekhn.nauk; MIL'MAN, B.S., kand.tekhn.
nauk; KLOCHNEV, N.I., kand.tekhn.nauk; TSYPIN, I.O., kand.tekhn.
nauk; LEVIN, M.M., kand.tekhn.nauk; BALDOV, A.L., inzh.; LYASS,
A.M., kand.tekhn.nauk; CHERNYAK, B.Z., kand.tekhn.nauk; ASTAF'YEV,
A.A., kand.tekhn.nauk; YERMAKOV, K.A., inzh.; GRIBOYEDOV, Yu.N.,
kand.tekhn.nauk; MYASOYEDOV, A.N., inzh.; BOGATYREV, Yu.M., kand.
tekhn.nauk; UNKSOV, Ye.p., doktor.tekhn.nauk, prof.; SHOFMAN, L.A.,
kand.tekhn.nauk; PERLIN, P.I., inzh.; MOSHNIN, Ye.N., kand.tekhn.
nauk; PROZOROV, L.V., doktor tekhn.nauk; CHERNOVA, Z.I., tekhn.
red.

[Some technological problems in the manufacture of heavy machinery]
Nekotorye voprosy tekhnologii tiazhelogo mashinostroeniya. Moskva,
Gos.nauchno-tekhn.izd-vo mashinostroit. lit-ry. Part 1: [Steel smelt-
ing and casting, founding, heat treatment, shaping metals by pres-
sure] Vypivka i razlivka stali, litvina proizvolstvo, termiches-
kaya obrabotka, obrabotka metallov davleniem. 1960. 266 p. (Moscow.
Sentral'nyi nauchno-issledovatel'skii institut tekhnologii i mashi-
nostroeniya. [Trudy] no. 98). (MIRA 13:7)

(Steel)

(Founding)

(Forging)

Sov/580

Automation of Cold [Metal] Stamping Production

COVERAGE: The collection contains reports delivered at the Kiev Scientific and Technical Conference by workers of machine and instrument plants, design organizations, and scientific research and educational institutions. The Conference was sponsored by the Kievskoye oblastnoye obshchinoye pravleniye prirodozashchitnoy i gospodarki nafto-gazovym chislom, Administration of the Scientific and Technical Society of the Ukraine, Institute and by the Ukraynskoye respublikans'koye prirodozashchitnoye i gospodarka nafto-gazovym chislom, and the Technical Society of the Ukrainian Administration. Administration of the Scientific and Technical Society of the Ukraine, the Ministry of Industry, and by the Ukraynskoye respublikans'koye prirodozashchitnoye i gospodarka nafto-gazovym chislom. The purpose of the Conference was to discuss the achievements and practical experience (especially as the country's automobile industry) in the automation of stamping production, the VSP Plant, and Leningradskaya factory) in the automobile industry. The Conference also served to acquaint a wide number of enterprises and instrument builders with the present state of automation in these fields and with the prospects for its further development. Physical details and experience in the design and operation of automatic devices, general and automatic production lines used in stamping production were discussed. No personalities are mentioned. References accompany most of the articles.

TABLE OF CONTENTS:

Foreword

Card: 87/580

PHASE I: BOOK EXPOSITION

Sov/580

Golubets', T.M., Doctor of Technical Sciences, Professor, and I.P. Pastukhov, Candidate of Technical Sciences, Docent, et al.
 Avtomatizatsiya vodorozhnykh priborotrotov (Automation of Cold [Metal] Stamping Production) Moscow, Nauksgiz, 1961. 282 p. 6,000 copies printed.
 Publishing Agency: Gospudarstvennyy nauchno-tehnicheskiy urid Soveta Ministrov UrSSR Institut Tekhnicheskoy Informatsii. Nauchno-tekhnicheskoye obshchinoye chislom. Nauchno-tekhnicheskoye obshchinoye obshchinoye prirodozashchitnoye i gospodarka nafto-gazovym chislom.

Ukrainianskoye respublikans'koye pravleniye.

Ed.: M.S. Soroka; Tech. Ed.: M.S. Gorostayev; Chief Ed.: (Southern Dept. Marshal); V.K. Borodai, Engineer.

PURPOSE: This collection of articles is intended for workers at machine and instrument plants and scientific research and design institutes.

Card: 87/580

Automation of Cold [Metal] Stamping Production	SCV/5580
Durkhtayn, D. Ye. Automation of Stamping in Press Shops (From the Practice at GAZ (Gor'kiy Automobile Plant))	5
Romanovskiy, V.P. Automation of Stamping Processes at Leningrad Plants	27
Lapin, P.I. Mechanization and Automation of Stamping Operations (From Factory Practice)	40
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PHASE I BOOK EXPLOITATION

SOV/5490

Shofman, Leopold Adol'fovich, Doctor of Technical Sciences

Osnovy rascheta protsessov shtampovki i pressovaniya (Fundamentals for the Calculation of Die-Forging and Extrusion Processes) Moscow, Mashgiz, 1961. 339 p.
Errata slip inserted. 9,000 copies printed.

Ed.: G.M. Makovskiy, Engineer; Ed. of Publishing House: L.A. Osipova; Tech. Ed.:
Z.I. Chernova; Managing Ed. for Literature on Hot-Processed Metals: S.Ya.
Golovin, Engineer.

PURPOSE: This book is intended for technical personnel in die-forging shops,
planning organizations, and scientific research institutes; it may also be used
by teachers and students in technical schools.

COVERAGE: Fundamentals of theories and methods of calculating the parameters of
processes of forging, extrusion, and die forging of three-dimensional, sheet, and
tubular blanks are stated. Sample calculations and data concerning the selec-
tion of parameters for press-forging equipment are also given. A considerable
part of the book is based on work carried out by P.I. Perlin, Candidate of Physics

Card 1/5

STEEFANN, L.A.

PHASE I BOOK EXPLOITATION

Unkov, Ye.P., Doctor of Technical Sciences, Professor, Ed.
Sovremennoye sostoyaniye kuznechno-shtampovochnogo proizvodstva (Present State
of the Pressworking of Metals) [Moscow] Mashgiz, 1961. 434 p. 5000 copies
printed.

Ed. of Publishing House: A.I. Sirotin; Tech. Ed.: B.I. Model'; Managing Ed. for
Literature on the Hot Working of Metals: S.Ya. Golovin, Engineer.

Title: Kuznechno-shtampovochnoye proizvodstvo v SSSR (The Pressworking of Metals
in the USSR) by: A.V. Altykis, D.I. Berzhikovskiy, V.F. Volkovitskiy, I.I.
Girsh (deceased), L.D. Gol'man, S.P. Granovskiy, N.S. Dobrinetskiy, A.I. Zimin,
S. L. Zlotnikov, A.I. Kazakovskiy, P.V. Lobachov, V.N. Martynov, Ye.N. Nish-
nin, G.A. Nevrotskiy, Yam. Ohrimko, G.M. Rovinskiy, Ye.A. Stosha, Yu.L.
Rozhdestvenskiy, N.V. Tikhomirov, Ye.P. Unkov, Doctor of Technical Sciences, Professor, and L.A. Shor-
nov.

Title: Kuznechno-shtampovochnoye proizvodstvo v ChSSR (The Pressworking of Metals
in the Czechoslovak SR) by: S. Burda, F. Brazdil, F. Draastik, F. Zlatohlavek

Card 1/8

sov/5799

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Present State of the (Cont.)
Z. Nejval, V. Krauz, F. Kupka, F. Majer, K. Marvan, J. Novák, J. Odchňal,
K. Paul, B. Sommer, M. Honz, J. Častka, V. Šindelář, and J. Šolc; Eds.:
A. Nejepsa and M. Vlk.

SGV/5799

PURPOSE: This book is intended for engineers and scientific personnel concerned
with the pressworking of metals.

COVERAGE: Published jointly by Mashgiz and Svit, the book discusses the present
state of the pressworking of metals in the USSR and the Czechoslovak Socialist
Republic. Chapters were written by both Soviet and Czechoslovak writers. No
personalities are mentioned. There are 129 references: 98 Soviet, 16 English,
8 German, 5 Czech, and 2 French.

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Ye.P. Unksov]

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36

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SOT/5799

- Ch. VIII. Scientific Research Work in the Field of Cold Impact Forging of Metals [F. Hrádil, Plant imeni Šmerla, Brno] 355
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- Ch. X. The Manufacturing Process and Organization in the Stamping of Bodies at the Automobile Plant "National Enterprise (AZNP) Mladá Boleslav" [Z. Kojval, AZNP, Mladá Boleslav] 397
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22065

S/182/61/000/006/001/007
D038/D112

1.1260 also 1454

AUTHOR: Shofman, L.A.

TITLE: The technology of stamping large parts

PERIODICAL: Kuznechno-shtampovochnoye proizvodstvo, no. 6, 1961, 1-4

TEXT: New heavy hydraulic stamping presses in the USSR require new and improved technology. Only comparatively small aluminum parts could be cold stamped up till now. The article deals with the suggestions made after theoretical and experimental investigations that were carried out at TsKBMEI and TsNIITMASh. The calculation method for pressure and metal flow has not been included since it was published previously: L.A. Shofman (Ref. 1: Osnovy rascheta protsessov shtampovki i pressovaniya [Fundamental calculations of stamping and pressing processes], Mashgiz, 1961) and L.A. Shofman and P.I. Perlin (Ref. 2: Osnovy teorii obrabotki metallov davleniyem [Fundamental theory of pressure metal working], ch. 7, Mashgiz, 1959). The results of the theoretical analysis consists in an approximate calculation formula for pressure on the projection area of the stamping done in closed dies (without burrs):

Card 1/4

22065

S/182/61/000/006/001/007
D038/D112

The technology of stamping

$$q = \frac{\sigma_s}{a} \left[\bar{a} + \bar{b} + \mu \bar{b} (\bar{b} + 2\bar{a}) + 0,4 (3\bar{a} - \bar{L}_0) \sqrt{\bar{L}_0} + \right. \\ \left. + \frac{\mu' (\bar{a} - \bar{L}_0)}{\bar{h}_n} \right],$$

where
rare

$$\bar{a} = \frac{a}{h}; \quad \bar{b} = \frac{b}{h}; \quad \bar{h}_n = \frac{h_n}{h}; \quad \bar{L}_0 = \frac{L_0}{h} = 0,5 \bar{h}_n^2;$$

σ_s - resistance of metal to deformation (yield strength); b and h width and thickness of the burr; μ and μ' - rated friction factors on the contact surfaces of the burr and in the stamp cavity. The stamping effort can be determined graphically (Fig. 2). It has been confirmed in practice that pressure in cold stamping of pure aluminum is $60-100 \text{ kg/mm}^2$, and in aluminum alloys $120-200 \text{ kg/mm}^2$. Cold stamping ensures high surface quality and requires no subsequent machining. The metal strength is considerably raised after cold stamping, e.g. the strength of D1 (D1) alloy reaches 50 kg/mm^2 after cold deformation above 50%. Development of new technological lubricants for hot and cold stamping, and research into new die steel grades for high pressure up to 100 kg/mm^2 at 500°C and up to 300 kg/mm^2 at room tem-

Card 2/4

22055

The technology of stamping ...

S/182/61/000/006/001/007
D038/D112

perature are very important. Sectional stamping methods of large parts by presses of a limited capacity are being developed. Experimental work carried out by VNIIMETMASH confirmed the feasibility of the sectional stamping of thin-walled ribbed parts from aluminum alloys. A design of a closed die for the sectional stamping is shown (Fig. 4). The essence of this method consists in the press effort being transmitted to several die sections in succession. The die cavity is filled by excess metal from blank parts. The reaction force in the closed upper (1) and lower (2) die cavities is absorbed by the frame (3) through a wedge device (4). The excess metal is removed by subsequent machining. Experiments proved that a 2-3 times lesser effort is needed to fill the stamp impression. Sectional stamping of large disks from heat-resistant alloys has been developed and tested. Further experimental research in laboratory and plants is advocated. There are 4 figures and 2 Soviet references.

X

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The technology of stamping ...

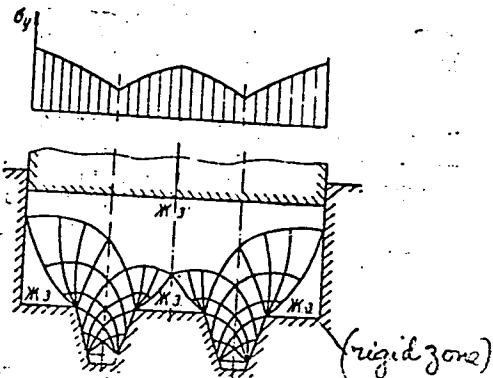


Рис. 2. Поля линий скольжения при штамповке в закрытых штампах и эпюры нормальных напряжений (Ж.з. — жесткая зона).

Fig. 2. Fields of slip lines in closed dies, and normal stress epures (Ж.з. - zhestkaya zona / rigid zone/) Card 4/4

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S/182/61/000/006/001/007
D038/D112

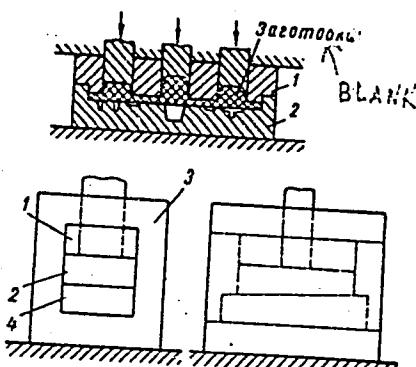


Рис. 4. Схема закрытой штамповки.

Fig. 4. Closed stamping design

SHOFMAN, L.A.; KAGALOVSKIY, A.I.

Die stamping in the United states of large-size parts on powerful -
hydraulic presses (review of foreign publications). Kuz. shtam.
proizv. 3 no. 5:37-41 My '61. (MIRA 14:5)
(United States--Sheet-metal work)

ROZHKO^V, V.M.; SHOFMAN, L.A.; ROZANOV, B.V.; KUZ'KO, Yu.P.; PONGIL'SKIY, N.F.;
LIVANOV, V.A.; LUCHIN, V.V.; KUZNETSOV, K.I.; TSYPER, V.A.;
CHERNOVSKY, V.K.

Points for pipe presses. Biul.TSIICHM no.9:52
(Pipe mills--Equipment and supplies) ¹⁶ MIRA 15:4)

S/902/62/000/000/004/015
E193/E383

AUTHORS: Shofman, L.A. and Rozhkov, V.M.

TITLE: Fabrication of profiles and tubes by extrusion

SOURCE: Novyye protsessy obrabotki metallov davleniyem; doklady Soveshch. po novym prots. obrab. met. davleniyem v mashinostr., 1960. Ed. by V. D. Golovlev. Moscow, Izd-vo AN SSSR, 1962. 61 - 65

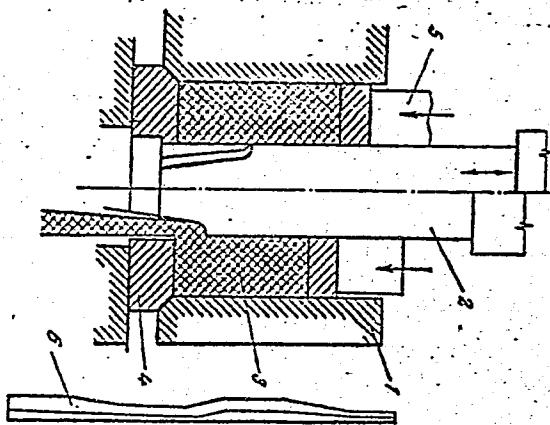
TEXT: This is a general discussion of recent development in the extrusion of articles with continuous or intermittently-varying cross-section. The advantages of the process are discussed and its principles are explained by briefly describing the following: 1) extrusion of profiles with a cross-section varying in a step-like fashion; 2) inverted extrusion of angle-profile with continuously varying cross-section; 3) inverted extrusion of internally-ribbed tubes with continuously varying outside and inside diameters and wall thickness; 4) direct extrusion of profiles whose cross-section varies in an irregular manner. The last of these processes is based on the application of an independently driven mandrel; its principle is schematically

Fabrication of profiles

S/902/62/000/000/004/015
E193/E585

demonstrated in Fig. 4 showing: 1 - container; 2 - profiled mandrel; 3 - extrusion billet; 4 - extrusion die; 5 - extrusion ram; 6 - extruded profile. There are 5 figures.

Fig. 4:



Card 2/2

L 23560-65 EWT(m)/EWA(d)/EWP(t)/EWP(k)/EWP(b) Pf-4 JD/HW

ACCESSION NR AM4048668 BOOK EXPLOITATION

S/

Shofman, L. A.

Brl

Theory and calculations of cold forging processes (Teoriya i raschety* protsessov kholodnoy shtampovki), 2d ed., rev., Moscow, Izd-vo "Mashinostroyeniye", 1964, 373 p. illus., biblio., tables. Errata slip inserted. 6,000 copies printed.

TOPIC TAGS: cold forging

PURPOSE AND COVERAGE: The book gives the principles of the theory and methods of calculating the technological processes of cold forging. It gives information on the parameters of press equipment and the results of experimental research. The book is intended for engineers and researchers working in press shops, design organization, and research institutes. It can also be useful to teachers and students in higher technical education institutions.

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ACCESSION NR AM4048668

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SUB CODE: MM

SUBMITTED: 11Jun64

NR REF Sov: 087

OTHER: 040

Card 3/3

L 33966-65 EWT(d)/EWT(m)/EWA(d)/EWP(v)/EWP(t)/EWP(e)/EWT(h)/EWP(e)/EWT(l)/EWA(e)

30

Pf-4 JD/HW

ACCESSION NR: AR5005708

S/0276/64/000/010/V004/V004 B

SOURCE: Ref. zh. Tekhnol. mashinostr. Sv. t., Abs. 10V23

AUTHOR: Rozanov, B.V.; Shofman, L.A.; Gol'man, L.D.; Maksimov, L.Yu.;
Rozhkov, V.M.; Andreyev, A.S.; Shcheglov, V.F.; Tokarskiy, A.P.

TITLE: Development of powerful forging presses and new pressure metalworking methods

CITED SOURCE: Tr. Vses. no.-i. i proyektno-konstrukt. in-ta metallurg. mashinostr.,
sb. 12, 1964, 353-391

TOPIC TAGS: pressure metalworking, hydraulic press design, hammer design

TRANSLATION: The article surveys the activities of VNIIMETMASH from its inception.
Described are designs of hydraulic presses and hammers developed at the Institute, as
well as new technological processes for pressure metalworking (including hydrostatic
techniques). Bibl. with 21 titles; 26 illustrations. /8

SUB CODE: IE, MM ENCL: 00

Card 1/1

L 45091-65 EWT(d)/EWT(m)/EWA(d)/EWP(v)/EWP(t)/EWP(k)/EWP(h)/EWP(b)/EWP(1)/
EWA(c) Pf-4 JD/HW UR/0182/65/000/004/0001/0005 29
ACCESSION NR: AP5011054 25
B

AUTHOR: Saprykin, A. A.; Shofman, L. A.

TITLE: Metal flow while pressing items of variable cross section

SOURCE: Kuznechno-shtampovochnoye proizvodstvo, no. 4, 1965, 1-5

TOPIC TAGS: tube pressing, pipe pressing, metal pressing, die casting, metal flow, radius die technique, hodograph plotting

ABSTRACT: The authors call attention to the trend in recent years to use pressing methods in the manufacture of items with a variable cross section along their length. Among these methods, the process of producing blanks and finished items of tubular form having a variable and periodic cross section is of particular importance. The essential nature of this process is briefly described. In an experimental study of the process of pressing tubular blanks of this type, a ring-shaped narrowing was noted in the transitional zone from the thin-walled to the thick-walled part of the tube whenever a flat die was used. It was found to be possible to eliminate this defect in the pressed tubes by using the results of a theoretical investigation of metal flow, based in turn on a method of rigid-plastic analysis which takes into account, along with the plastic zones, the pre-

Card 1/4

L 45091-65
ACCESSION NR: AP5011054

sence in the deformed body of rigid (elastic) nuclei. Although this method, described in full in the present article, was developed for flat deformation, it can be used successfully when investigating the pressing of thin-walled tubes, since in this process the axial and radial deformations are many times greater than the tangential. Since the constriction or narrowing of the tube billet (skelp) is caused by a sharp change in the direction of metal flow when leaving the die as the duct passage changes, an analysis of the various pressing parameters and, in particular, the determination of the effect of die geometry and the position of the mandrel with respect to the die, requires that the direction of the flow speed vector be found for different cases. This is accomplished by plotting characteristic graphs in the plane of the velocities (i.e., a hodograph) according to a known field of characteristics in the physical plane. The construction of a hodograph makes it possible to determine the velocity vector for the displacement of any point in the plastic zone of the skelp as a function of tool form and the relative arrangement of its individual parts. The characteristic field in the velocity plane is plotted, in the authors' approach, through the use of a graphic method, based on the condition of orthogonality with respect to the corresponding segments of the characteristics field in the physical field.

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L 45091-65

ACCESSION NR: AP5011054

An attempt is made to answer the question whether there is a change in the character of metal flow when pressing through a conical die as opposed to pressing through a flat die, all other conditions being equal. The analysis presented in this article shows that the defects (constrictions) which arise during pressing through a flat die at the points of transition from the thin-walled part of the tube to the thick-wall can be eliminated through the use of radius dies. Moreover, there is an optimal radius at which this narrowing disappears almost entirely. Numerous experiments in the pressing of tubes with periodically recurrent wall chamber, using light alloys on a 1000-ton horizontal hydraulic press and conducted in the pressing laboratory of VNIIMETMASH have confirmed the results of the theoretical analysis presented in this paper: the use of dies with rounded edges makes it possible to reduce, and in certain cases to eliminate completely, fullering in pressing. The method proposed by the authors for the graphic construction of fields of characteristics and the corresponding hodographs for a tool with working surfaces of any configuration is of general interest, since it permits the solution of a number of practically important engineering problems having to do with various processes of pressure-working metals (closed impression die forging, drawing, rolling) with any form of contact surfaces for the working tool (draw plates, rollers, dies). "P. I. Perlin took part in the work." Orig. art. has: 9 figures and 6 formulas.

Card 3/4

I 45091-65
ACCESSION NR: AP5011054

ASSOCIATION: None

SUBMITTED: 00

NO REF SOV: 003

ENCL: 00

SUB CODE: MM, IE

OTHER: 000

me
Card 4/4

L 1653-66 EWT(m)/EWP(t)/EWP(k)/EWP(b)/EWA(c) JD/HW

ACCESSION NR: AP5021620

UR/0286/65/000/013/01c1/0101
621.979.984.002.54

AUTHOR: Shofman, L. A. 4455 Gedymin, Yu. Yu.; Rozhkov, V. M.; Starikov, V. S. i 4455 4455 4455 4455 4455 4455 4455 Kryuchkov, M. N. A.; Davydov, G. V. M.; Akhmetshin, M. M. A.; Kvitnitskiy, A. N.; 4455 Rogozinskii, A. A.; Feygin, V. I.; Yegorov, I. V.; Roytberg, L. Kh.; Yermanok, M. Z. Rodionov, A. S. 4455 4455 4455 4455 4455 4455 4455

TITLE: Method for tube extrusion. Class 49, No. 172601

SOURCE: Byulleten' izobreteniy i tovarnykh znakov, no. 13, 1965, 101

TOPIC TAGS: metal, metal tube, metal extrusion, tube extrusion

ABSTRACT: This Author Certificate introduces a method for tube extrusion from solid ingots. In this method the metal is first divided into several strips which are subsequently welded in the next die. In order to reduce the extrusion pressure, the diameter of the ingot should be smaller than that of the extruded tube. [AZ]

ASSOCIATION: none

SUBMITTED: 30Jan62

NO REF SOV: 000
Card 1/1 DP

ENCL: 00
OTHER: 000

SUB CODE: MM 16
ATD PRESS: 4093

L 1655-66 EWT(d)/EWT(m)/EWP(v)/EWP(t)/EWP(k)/EWP(h)/EWP(b)/EWP(1)/EWA(c)
JD/HW
ACCESSION NRY AP5021621

UR/0286/65/000/013/0102/0102
621.979.984.002.54

69
B

AUTHOR: Shofman, L. A.; Gedymin, Yu. Yu.; Rozhkov, V. M.; Starikov, V. S.;
Kryuchkov, M. N.; Davydov, G. V.; Akhmetshin, M. A.; Kvitsnitskiy, A. N.;
Rogozinskiy, A. A.; Feygin, V. I.; Yegorov, I. V.; Roytberg, L. Kh.; Yermanok, M. Z.;
Rodionov, A. S.

44,55 44,55 44,55 44,55 44,55 44,55 44,55 44,55 44,55 44,55
TITLE: Tool for extruding of tubes. Class 49, No. 172602

SOURCE: Byulleten' izobreteniy i tovarnykh znakov, no. 13, 1965, 102

TOPIC TAGS: tube, metal tube, tube extrusion, extrusion tool, extrusion press 44,55

ABSTRACT: This Author Certificate introduces a tool for the extrusion of tubes from solid ingots, i.e., container, mandrel, welding chamber, and die. In order to increase the rigidity of individual tools and ensure their precise position in relation to one another, thereby improving the accuracy of the extruded tubes, the mandrel is rigidly mounted in relation to the container; it carries an internal die and is provided with a central compartment for the ingot. Radial canals connect this compartment with the welding chamber, which is formed between container wall and the mandrel surface. [AZ]

Card 1/2

L 1655-66

ACCESSION NR: AP5021621

ASSOCIATION: none

SUBMITTED: 31Jan62

ENCL: 00

SUB CODE: MM

NO REF SOV: 000

OTHER: 000

ATD PRESS: 4095

Card 2/2 H

L 8854-66 EWT(d)/EWT(m)/EWP(v)/EWP(t)/EWP(k)/EWP(h)/EWP(b)/EWP(l)/EWA(c) JD/HW

ACC NR: AP5026483

SOURCE CODE: UR/0286/65/000/019/0009/0009

INVENTOR: Granovskiy, S. P.; Pyatunin, A. I.; Yefanov, V. I.; Yakovlev, S. A.; Arutyunov, I. G.; Revunov, V. A.; Zemskov, A. A.; Shofman, L. A.

ORG: none 44.55 44.55 125876 8

TITLE: Production of seamless tubes. Class 7, No. 175026. [Annou

- Union Scientific Research and Design-Planning Institute of Metallurgical Equipment (Vsesoyuznyy nauchno-issledovatel'skiy i proyektno-konstruktorskiy institut metallurgicheskogo mashinostroyeniya)]

SOURCE: Byulleten' izobreteniy i tovarnykh znakov, no. 19, 1965, 9

TOPIC TAGS: tube, seamless tube, thin wall tube, light alloy tube, ~~Metal~~ rolling

ABSTRACT: This Author Certificate introduces a method for making seamless tubes, e.g., light-alloy tubes from rolled, forged, or cast tube shells. To obtain thin-wall tubes of large diameter with precise dimensions and a clean surface, the tube shell is first hot rolled with expansion in a helical mill and then cold rolled with elongation in a helical rolling mill. [AZ]

SUB COOK: 13/ SUBM DATE: 12Feb64/ ATD PRESS: 4132

Card 1/1

UDC: .621.774.3

L 33437-66 EWT(m)/EWP(w)/EWP(t)/ETI/EWP(k) IJP(c) JD/HW/EM

ACC NR: AP6012731

SOURCE CODE: UR/0136/66/000/004/0078/0081

AUTHOR: Shofman, L. A.

ORG: none

TITLE: Minimum thickness of butt and "jacket" in the pressing of nonferrous metals and alloys

SOURCE: Tsvetnyye metally, no 4, 1966, pp 78-81

TOPIC TAGS: metal pressing, waste metal, nonferrous metal, nonferrous metal alloy, die, mathematic analysis

ABSTRACT: In the pressing of shapes and tubes part of the metal has to be scrapped as butt. The minimum thickness of the butt at which the extrusion shrinkage cavity can still be averted may be determined by plotting slip-line fields (cf. Shofman, L. A. Teoriya i raschety protsessov shtampovki. Izd-vn "Mashinostroyeniye," 1964), which refers to the volume of the plastic zone bounded by two orthogonal slip lines AB and BC within the rigid zone (Fig. 1): as the distance between the dummy block and the die decreases, the volume of the plastic zone gradually diminishes and the slip-line field changes correspondingly (Fig. 2) until the normal pressure exerted by the metal on the dummy block at point M becomes zero, which means the possibility of the formation of

Card 1/4

UDC: 669.2/.8 : 621.97

L 33487-66

ACC NR: AP6012731

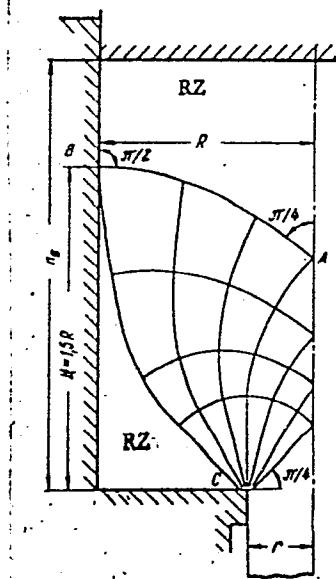


Fig. 1. Slip-line fields during the steady-state stage of pressing by the direct method without lubrication (assuming that the tangential stresses at the surfaces of contact between the blank and the tool have a constant maximum value equal to one-half of the yield point of the blank's metal, i.e. assuming that $\tau_t = 0.5 \sigma_y$); RZ = Rigid Zone

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L 33487-66

ACC NR: AP6012731

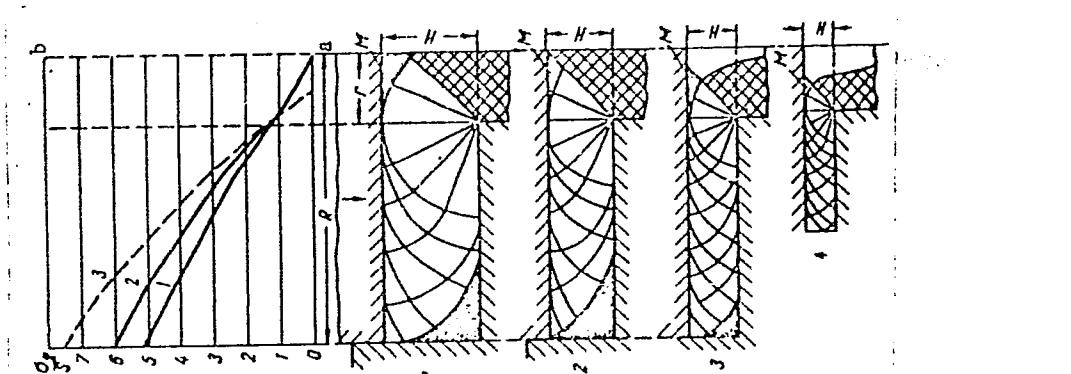


Fig. 2. Slip-line fields (a) and stress-strain diagrams (b) during the unsteady-state stage of pressing by the direct method without lubrication ($\tau_t = 0.5 \sigma_s$):

$$1 - H = r\sqrt{2}; 2 - H = r; 3 - H = 0.75 r; 4 - H = 0.5 r$$

Card 3/4

L 33487-66

ACC NR: AP6012731

'an extrusion shrinkage cavity. This possibility can be averted by determining the minimum thickness H_{\min} of the butt from the formula for the minimal percentage of the metal wasted as the butt:

$$\alpha_{\min} = \frac{H_{\min}}{H_0} \cdot 100 = \frac{100}{2 m \sqrt{\lambda}} \%,$$

where $\lambda = D^2/d^2$ is the elongation coefficient, D and d are the diameters of the blank and the end-product, respectively; $m = H_0/D$ (H_0 is the initial height of the blank). Further, the hot pressing of nonferrous metals leads to the formation of the so-called "jacket"; the dummy block, whose diameter is somewhat smaller than the diameter of the container, separates the outer defective annular layer of the ingot, which is subsequently scrapped. The length of this "jacket" may not exceed the original length of the ingot, i.e. the metal should not flow into the gap between the dummy block and the container in the direction opposite to the direction of the dummy block. On this basis a corresponding formula for the optimal thickness of the "jacket" is derived for an ingot of radius R being extruded through a die hole of radius r. Orig. art. has: 4 figures, 2 tables.

SUB CODE: 13, 11/ SUBM DATE: none/ ORIG REF: 004/ OTH REF: 001

Card 4/4 J.D.

ACC NR: AT7007354

SOURCE CODE: UR/0000/66/000/000/0152/0157

AUTHOR: Shofman, L. A.

ORG: none

TITLE: Extrusion of complex shapes

SOURCE: Soveshchaniye po avtomatizatsii protsessov mashinostroyeniya. 4th, 1964. Avtomatizatsiya protsessov svarki i obrabotki davleniyem (Automation of welding and pressure treatment processes); trudy soveshchaniya. Moscow, Izd-vo Nauka, 1966, 152-157

TOPIC TAGS: METAL extrusion, ~~aluminum extrusion~~, ~~copper-aluminum extrusion~~, METAL TUBE, EXTRUDED FORGING, EXTRUDED ALUMINUM

ABSTRACT: The author briefly reviews some new methods for extruding various shapes developed and tested at the All-Union Scientific Research Institute of Metallurgical Machinery (VNIIMETMASH) including reverse extrusion of variable section shape and tubes, extrusion of flat and finned steel tubes with variable thickness and height of fins and extrusion of variable-section aluminum-alloy tubes with 12 longitudinal channels. Variable and periodical section shapes and tubes are extruded by a cyclic reverse operation mandrel. Aluminum alloy tubes

Card 1/2

UDC: none

ACC NR: AT7007354

extruded with ring-shaped thickening were successfully tested in drill-hole operations; their strength is similar or higher than that of steel tubes and they are 2.5 times lighter. Tubes with dead end were obtained which can be used for production of thin-walled containers with thickened bottom and neck. Extrusion of aluminum alloy tubes 250 mm in diameter with longitudinal inner fins and ring-shaped thickening and experimental specimens of steel tube with thickened ends were obtained. Double-channel aluminum tubes, 7mm in diameter, 0.5-0.7mm (wall) thick with diametric baffle plate, were used as heat exchangers for an experimental unit at the Institute of Physical Problems AN SSSR. Aluminum-alloy-tube heat exchangers with internal and external screw fins and steel tubes with external right or screw tooth used as blank for production of gear wheel and rings were extruded. A technological process, working tool and unit for semicontinuous hot extrusion of steel-aluminum or copper-aluminum cable has also been developed. Orig. art. [Az] has: 9 figures.

SUB CODE: 13/ SUBM DATE: none

Card 2/2

SUBJECT: USSR/Medicine 25-5-23/35

AUTHOR: Novinskiy, G., Dr. and Shofman, M. Dr.

TITLE: Acupuncture - (Chzhentszyuterapiya)

PERIODICAL: Nauka i Zhizn' - May 1957, No 5, p 51 (USSR)

ABSTRACT: The needle puncturing therapy has been known in China for many centuries. It consists of pricking into certain spots of the human body with a special needle and turning it several times. According to Chinese experts there are from 100 to 720 such spots, each of which corresponds with some body organ or an illness. Two puncturing methods are distinguished: one soothing, the other irritating. Acupuncture has given satisfactory results when applied against sciatica, heartaches, muscular rheumatism and similar pains in other organs. Tests have revealed that satisfactory results largely depend on the skill with which the needle is handled. Acupuncture has been lately adopted by a few Soviet hospitals.

Card 1/2

SHOFMAN, Maks Adol'fovich; SOROKO, Ya.I., red.; RAKITIN, I.T., tekhn.
red.

["Secrets" of oriental medicine] "Sekrety" vostochnoi meditsiny.
Moskva, Izd-vo "Znanie," 1963. 39 p. (Novoe v zhizni, nauke,
tekhnike. VIII Seriia: Biologija i meditsina, no.2)

1. Klinika Moskovskogo gosudarstvennogo universiteta (for Shofman).
(MEDICINE, CHINESE) (MEDICINE, HINDU)
(MIRA 16:1)

SHOFMAN, M.Sh.; SHUL'GIN, A.V.

Automation of filler production processes. Biul.tekh.-ekon.
inform.Gos.nauch.-issl.inst.nauch.i tekh.inform. 16 no.6:42-45
'63. (Mixing machinery) (Automation) (MIRA 16:8)

"APPROVED FOR RELEASE: 08/23/2000

CIA-RDP86-00513R001549820012-9

SHOPMAN, M.Sh.

Manufacturing a set of high-precision groove-grinding machines.
Bul. tekhn.-ekon. inform. Gos. nauch.-issl. inst. nauch. i tekhn.
inform. 18 no.7:25-27 Jl '65. (MIR4 18:9)

APPROVED FOR RELEASE: 08/23/2000

CIA-RDP86-00513R001549820012-9"

SORSHER, I.I.; SHOFMAN, M.S.

Introducing an automatic line for zinc plating of parts.
Biul.tekh.-ekon.inform.Gos.nauch.-iscl.inst.nauch.i
tekhn.inform. 18 no.11:9 N '65.

(MIRA 18:12)

VARSHAVSKIY, D.S., inzh.; LANTSEV, A.G., inzh.; SHOFMAN, O.S., inzh.;
PETRASHKEVICH, N.I., inzh.

Power factor increasing KMV and KSV-series condensers.
Vest. elektroprom. 33 no.5:56-61 My '62. (MIRA 15:5)
(Ust'-Kamenogorsk--Electric equipment industry)
(Condensers (Electricity))

"APPROVED FOR RELEASE: 08/23/2000

CIA-RDP86-00513R001549820012-9

SHOGAM, A. N. and RISHAN, B. Ya.

"Problem of the Pathogenesis of Poisoning by Tetraethyl Lead," Far. i Toks.,
11, No.3, 1948

APPROVED FOR RELEASE: 08/23/2000

CIA-RDP86-00513R001549820012-9"

30977. SHOGAM, A. N., RASHAP, B. YA., AND SHEVKO, A. D.

Nekotorye fiziologicheski aktivnye veshchestva v krovi donorov. Trudy Ukr. psikhonevrol. In-ta, t. XXV, 1949, s. 31-36

31077. CHOGAM, A., N.

Gumoral'nye faktory reaktivnosti nervnoy sistemy pri shizofrenii.
Trudy Ukr. psikhonevrol. in-ta, t. xxv, 1949, s. 45-58

SHOGAM, A.N.

Tikhon Ivanovich IUDin; 5th anniversary of his death. Zhur. nevr.
i psikh. 54 no.11:945-947 N '54. (MLRA 8:1)
(IUDIN, TIKHON IVANOVICH, 1879-1949)

POGIBKO, I.I.; PLOTICHER, A.I.; SHOGAM, A.N.

Tasks and methods in the prevention and preventive therapy of
mental diseases. Zhur.nevr. i psikh. 55 no.7:535-539 '55.

(MLRA 8:10)

1. Ukrainskiy nauchno-issledovatel'skiy psichonevrologicheskiy
institut.

(MENTAL DISORDERS, prevention and control)

SELETSKIY, A.I.; SHOGAM, A.N. (Khar'kov)

Improving statistics in psychoneurological institutions discussion.
Zhur.nevr. i psikh. Supplement:96-97 '57. (MIRA 11:1)
(MEDICAL RECORDS)

SHOGAM, A.N.; SELETSKIY, A.I.

Calculatory methods for evaluating some statistical data on the
work of psychoneurological institutions. Zhur.nevr. i psikh.
Supplement:97-98 '57. (MIRA 11:1)

1. Iz organizatsionno-metodicheskogo otdela (zav. A.N.Shogam)
Ukrainskogo nauchno-issledovatel'skogo psichonevrologicheskogo
instituta, Khar'kov.

(MEDICAL RECORDS)

LESHCHENKO, A.I.; SHOGAM, A.N.

Some complex forms of the disturbance of the space perception.
Zdrav.Turk. 2 no.5:26-30 S-0 '58. (MIRA 12:6)

1. Iz kliniki nervnykh bolezney (zav. - zasluzhenny prof.A.I. Geymanovich [deceased]) Ukrainskogo nauchno-issledovatel'skogo psikhonevrologicheskogo instituta i kafedry psichiatrii (zav. - dots. A.N.Shogam) Turkmenetskogo gosudarstvennogo meditsinskogo instituta im. I.V.Stalina.
(SPACE PERCEPTION) (PERCEPTION, DISORDERS OF)

SHOGAM, A.N.

Some aspects of the reorganization of psychiatric education. Zhur.
nevr.i psikh. 59 no.10:1256-1258 '59. (MIRA 13:3)

1. Kafedra psikiatrii (zaveduyushchiy A.N. Shogam) Turkmeneskogo
meditsinskogo instituta.
(PSYCHIATRY educ.)

LESHCHENKO, A.G.; SHOGAM, A.N.

New type of pathological grasping reflex and its significance in
the diagnosis of tumors of the frontal lobe. Zdrav. Turk. 4
no. 3:28-32 My-Je '60. (MIRA 13:10)

1. Iz kliniki nervnykh bolezney (zav. - prof. A.I. Geymanovich
[deceased] Ukrainskogo psikhonevrologicheskogo instituta i
kafedry psichiatrii (zav. - dotsent A.N. Shogam) Turkmenetskogo
gosudarstvennogo meditsinskogo instituta im. I.V. Stalina.
(REFLEXES) (BRAIN—TUMORS)

SHOGAM, A.N. (Khar'kov)

"Nature of the individual consciousness (in healthy and pathological conditions)" by A.A.Megrabiana. Reviewed by A.N.Shogam. Zhur. nevr. i psikh. 61 no.11:1741-1744 '61. (MIRA 15:2)
(CONSCIOUSNESS) (MEGRABIANA, A.A.)

SHOGAM, I.I.

Method for the investigation of skin sensitivity. Vrach.delo
no.3:315 Mr '60. (MIRA 13:6)

1. Odesskiy nauchno-issledovatel'skiy psikhoneurologicheskiy
institut.
(MEDICAL INSTRUMENTS AND APPARATUS) (SKIN)

LISTITSKAYA, F.M.; SHOGAM, I.I.

Role of the sympathetic trunk in the clinical picture of lesions
of the midbrain. Zhur.nevr. i psikh. 63 no.12:1813-1817 '63.
(MIRA 18:1)

I. Odesskiy nauchno-issledovatel'skiy psikhoneurologicheskiy
institut (direktor A.G.Leshchenko, nauchnyy rukovoditel' - prof.
A.Yu.Vyyasnovskiy)

cat

SHOGAMI, S.-M.

2

Kinetics of the oxidation of nitrogen oxide on activated charcoal. G. K. Borekov and S. M. Shogam. *J. Phys. Chem. (U.S.A.)* 8, 308-25 (1938).—The rate of oxidation of NO by O₂ on activated charcoal at 15° is given by

the equation $\frac{dC_{\text{NO}}}{dt} = K \frac{C_{\text{NO}}^{\frac{1}{2}} C_{\text{O}_2}}{C_{\text{NO}}^{\frac{1}{2}}}$. CO_2 does not af-

fect the rate of the reaction, while H_2O vapors strongly reduce the rate at 100° to 121° indicating a heat of adsorp-

tion of H_2O on charcoal of 10,000 cal./mole. For 3% NO_2 mixts. the max. rate of reaction occurs at 70° , the energy of activation changing from 3200 cal. at 15° to 0 at 70° and to -3400 cal./mole at 120° . F. H. Rathmann

ASH-SLA METALLURGICAL LITERATURE CLASSIFICATION

APPROVED FOR RELEASE: 08/23/2000

CIA-RDP86-00513R001549820012-9"

SHOGAM, S. M.

"Vanadium Catalyst for the Manufacture of Sulfuric Acid," S. M. Shogam,
USSR Pat 64,307, Feb 28, 1945 (SEE: Inst. Insect/Fungi. in Ya. V.
Samoylov)

SO: U-237/49, 8 April 1949

S.HOGAM, S. M.

36588. BLOFGL'SKII, A. P. i SHOGAM, S. M. O Kristallizatsii Aresenatov Kaltsiya.
Zhurnal Fiz. Khimii, 1949, vyp. 11, c. 1266-74. - Bibliogr: 9 Nazv.

SO: Letopis' Zhurnal'nykh Statey, Vol. 90, Moskva, 1949

SHOGAM, S.M.

Physicochemical properties of calcium arsenates
M. Shogam and N. I. Trushkina, *Zhur. Prakt. Khim.*
(J. Applied Chem.) 22, 33-40 (1949). Two groups of Ca
arsenates are obtained. The first includes $\text{CaO} \cdot \text{As}_2\text{O}_3 \cdot 5\text{H}_2\text{O}$ (I) and $3\text{CaO} \cdot \text{As}_2\text{O}_3 \cdot 10\text{H}_2\text{O}$ (II), and is characterized
by high solv. in the pH range 7.5-10. The aq. suspension
of I has a pH = 0.6, and, in titration with HCl in the presence
of phenolphthalein, final neutralization takes place
when about 14% CaO has been titrated; the aq. suspen-
sion of II has pH 0.1, and is neutralized when about 5%
CaO has been consumed by the titration. The second
type, including $3\text{CaO} \cdot \text{As}_2\text{O}_3 \cdot 2\text{H}_2\text{O}$ and its solid solns. with
 $\text{Ca}(\text{OH})_2$, show a $\text{CaO} \cdot \text{As}_2\text{O}_3$ ratio of 3.2-3.8; it is char-
acterized by low solv. in the pH range 7.5-10, the aq.
suspension has pH 8.3-8.6, and neutralization corresponds
to consumption of about 1-2% CaO. Possibly, the dif-
ferences between the 2 types are due to differences in crys-
tal lattice structures. Dens., of solv. as a function of the
pH and titration provide a means of identification of the
phase compn. of com. Ca arsenate preps. — N. Thor

Sci. Insect.-Fertilizers + Insecto-fungicides

CA

SHOGAM, S.M.

2

Crystallization of calcium arsenates. A. P. Belopol'skit and S. M. Shogum (Sverdlov Inst. Fertilizers and Insectofungicides, Moscow). *Zhur. Fiz. Khim.* 23, 1293-74 (1949).—On mixing solns. of $\text{Ca}(\text{OH})_2$ and As_2O_3 in the mol. ratio r 2.5:1 to 15.5:1, a gel of the approx. compn. $3\text{CaO} \cdot \text{As}_2\text{O}_3 \cdot 10\text{H}_2\text{O}$ (I) forms; it gives no cryst. x-ray pattern. If r is large, the gel contains an excess of CaO (e.g. 3.25 mol. instead of 3). At 17°, it is converted into cryst. I (x-ray pattern given), and the time of conversion (hrs.) increases with r. If r is greater than 4.6 and the supernatant liquid contains more than 0.2 g. CaO per l., cryst. I is transformed into $4\text{CaO} \cdot \text{As}_2\text{O}_3 \cdot 8\text{H}_2\text{O}$ (III). X-ray patterns show that the sediment during this transformation is a mech. mixt. of I and II. The duration of this transformation (10-120 hrs.) decreases when r increases. The transformation starts after a latent period during which, presumably, the mother liquor becomes supersatd. with II. At 40-60° the primary gel yields, when the mother liquor contains less than 0.01 g. CaO per l., cryst. $3\text{CaO} \cdot \text{As}_2\text{O}_3 \cdot 2\text{H}_2\text{O}$ (III). III gives solid solns. with $\text{Ca}(\text{OH})_2$, when the CaO concn. is greater than 0.01 and less than 0.6 (at 40°) or less than 0.8 g./l. (at 60°). At higher $\text{Ca}(\text{OH})_2$ concns. II forms. J. J. Bikerman

USSR/Chemistry - Insecticides

FD-505

Card 1/1 : Pub. 50-4/23

Authors : Bezuglyy, S. F., Cand. Chem. Sci., and Shogam, S. M., Cand. Chem Sci

Title : Some physico-chemical properties of insecticide emulsions and insecticide dusts

Periodical : Khim. prom., 272-278 (16-22), Jul/Aug 1954

Abstract : Reviews on the basis of USSR work the properties of emulsions and dusts containing DDT, hexachlorocyclohexane, thiophos, and chlorten (chlorinated turpentine or chlorinated alpha-pinene fraction). Describes procedures for the production of these emulsions and dusts. Twenty two references; 20 of them USSR, all since 1940. Three graphs.

Institution : Scientific Research Institute of Fertilizers and Insectofungicides.

Submitted :

Shoagam, B. D.

Physicochemical study of calcium arsenate. S. M.

Shoagam (Sci. Inst. Fertilizers and Insecticidides, Akad.

SSSR, Issledovaniya po Proklad. Khim., Akad. Nauk

S.S.R., Odsl. Khim. Nauk 1955, 213-24. Previous ob-

servations (C. I, 44, 28161) were confirmed and addnl. study

revealed that Na_3AsO_4 in aq. suspension of $\text{Ca}(\text{OH})_2$ reacts

to form $\text{CaNaAsO}_4 \cdot \text{SH}_2\text{O}$ at 20° or $\text{CaNaAsO}_4 \cdot 4\text{H}_2\text{O}$ above

20°. The octahydrate is metastable when the ratio of the

reactants (expressed as $\text{CaO:As}_2\text{O}_3$) is >2, and at 20° it changes into $4\text{CaO} \cdot \text{As}_2\text{O}_3 \cdot 5\text{H}_2\text{O}$ (I). The tetrahydrate is metastable even when the ratio is 2:1 and it changes at ele-
vated temp. either into I or into solid solns. of $\text{Ca}(\text{OH})_2$ in the $3\text{CaO} \cdot \text{As}_2\text{O}_3 \cdot 2\text{H}_2\text{O}$ (II). Study of thermograms and x-ray photographs revealed that $3\text{CaO} \cdot \text{As}_2\text{O}_3 \cdot 10\text{H}_2\text{O}$ when heated to 500°, besides dehydration at 90-100°, did not undergo any other changes. At 200-215° I lost water and at 350° went into solid phase. Heating II contg. solid solns. of $\text{Ca}(\text{OH})_2$ up to 500° did not change the parameters of the crystal grating.

A. P. Kotlobv